

09/882127

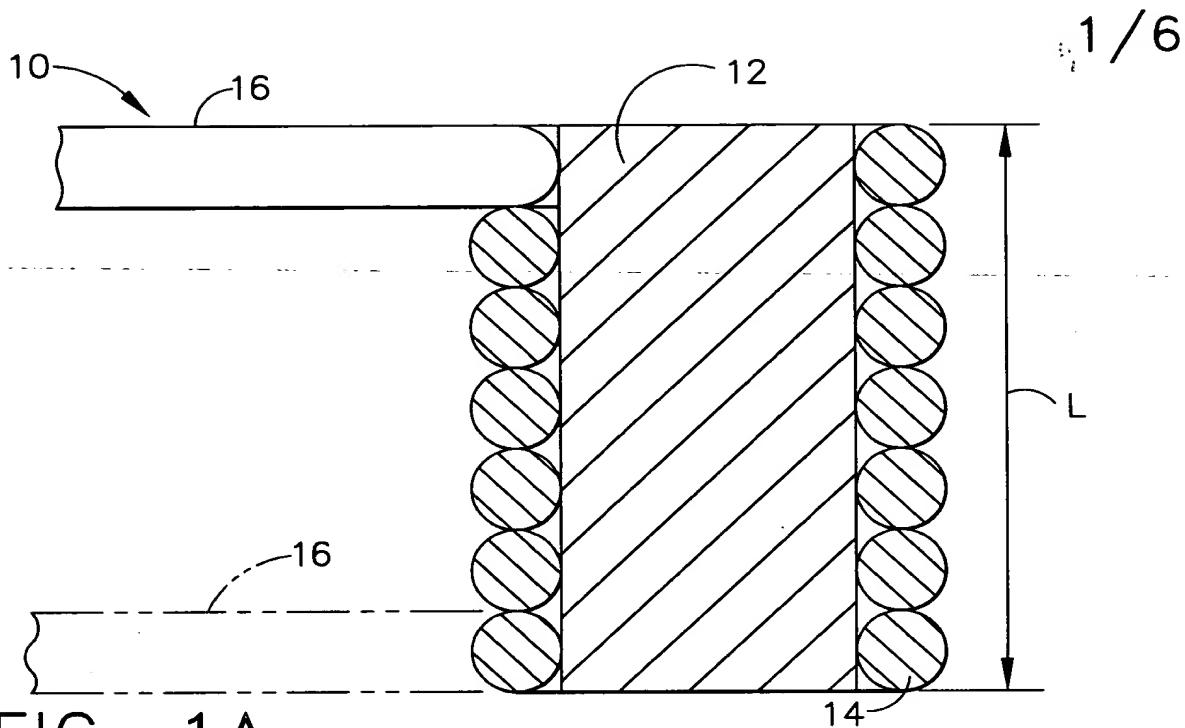


FIG. 1A

1000-2128860

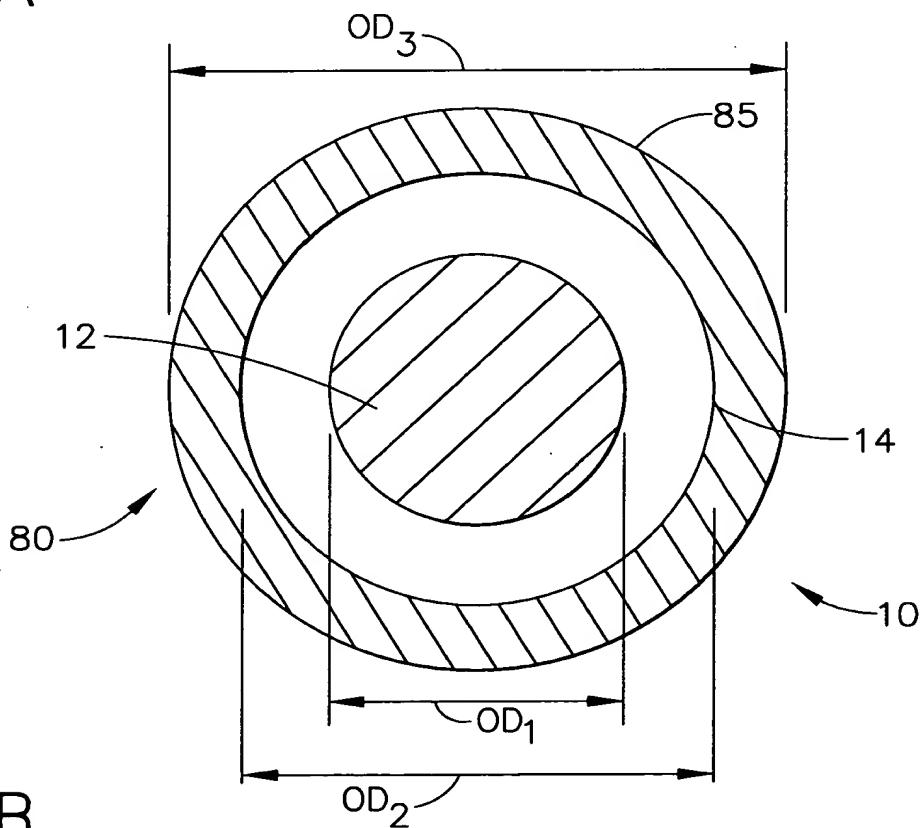


FIG. 1B

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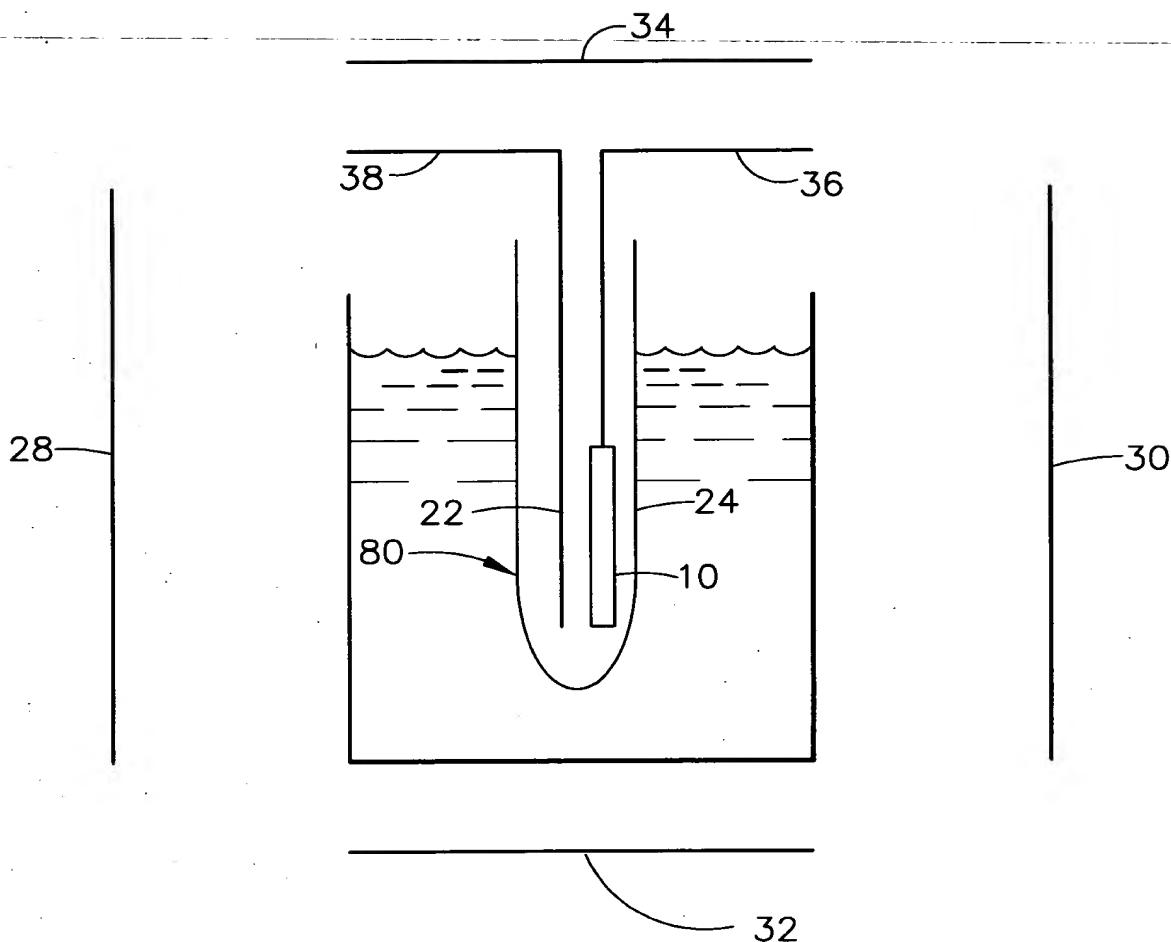


FIG. 2

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REGRESSING HEAT EXPERIMENT SENSOR 2

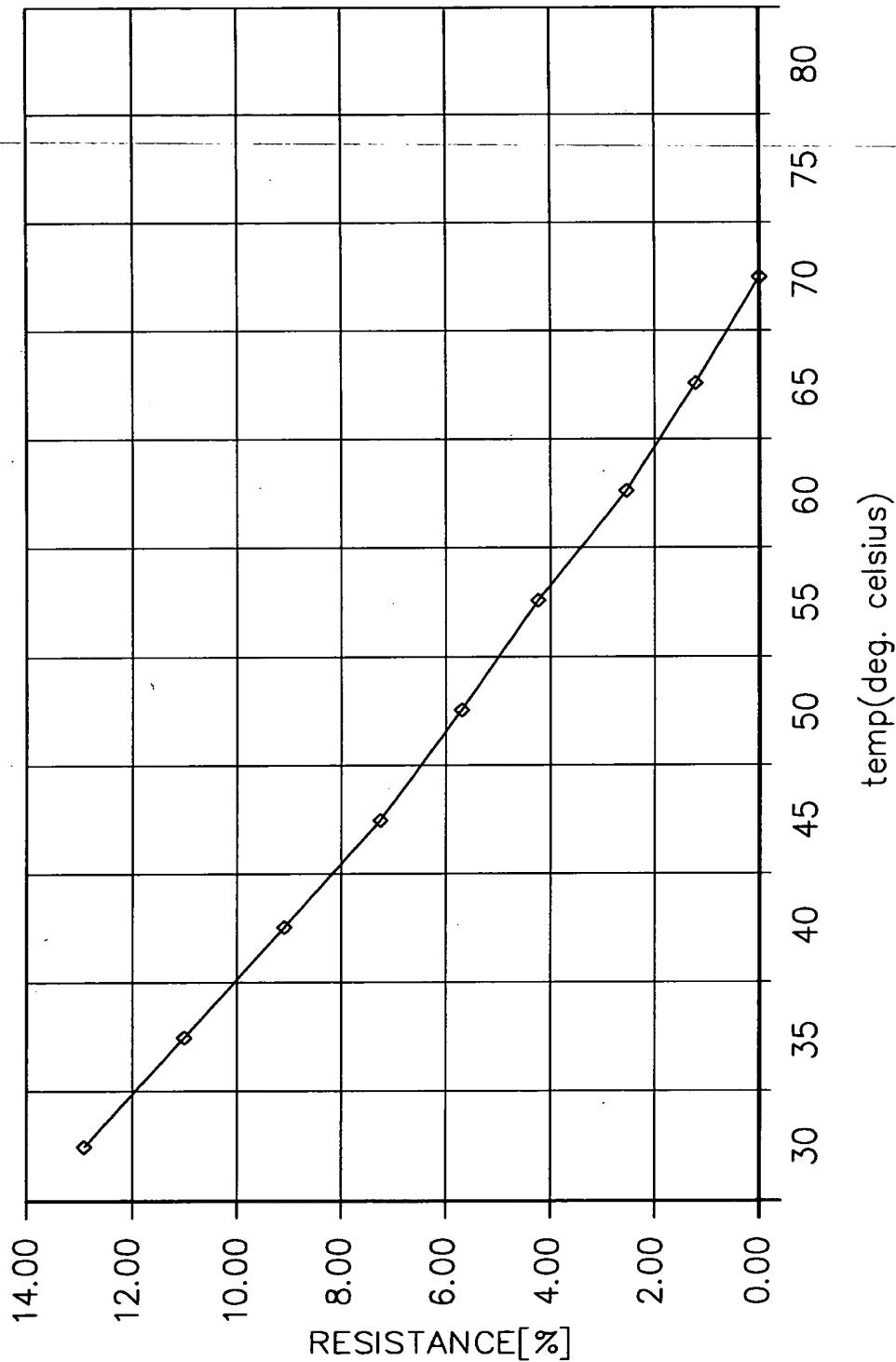


FIG. 3A

REGRESSING HEAT EXPERIMENT SENSOR 2

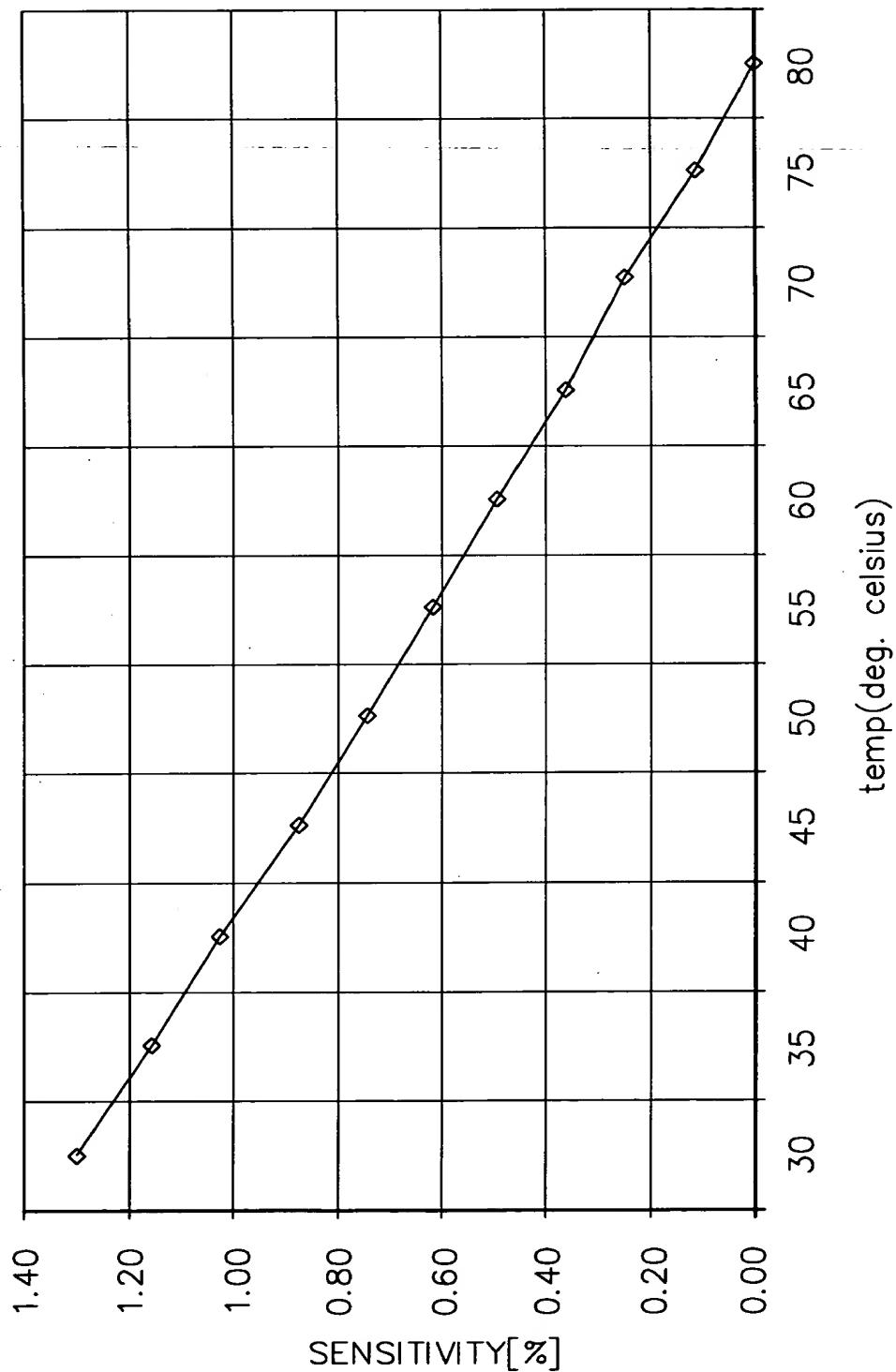
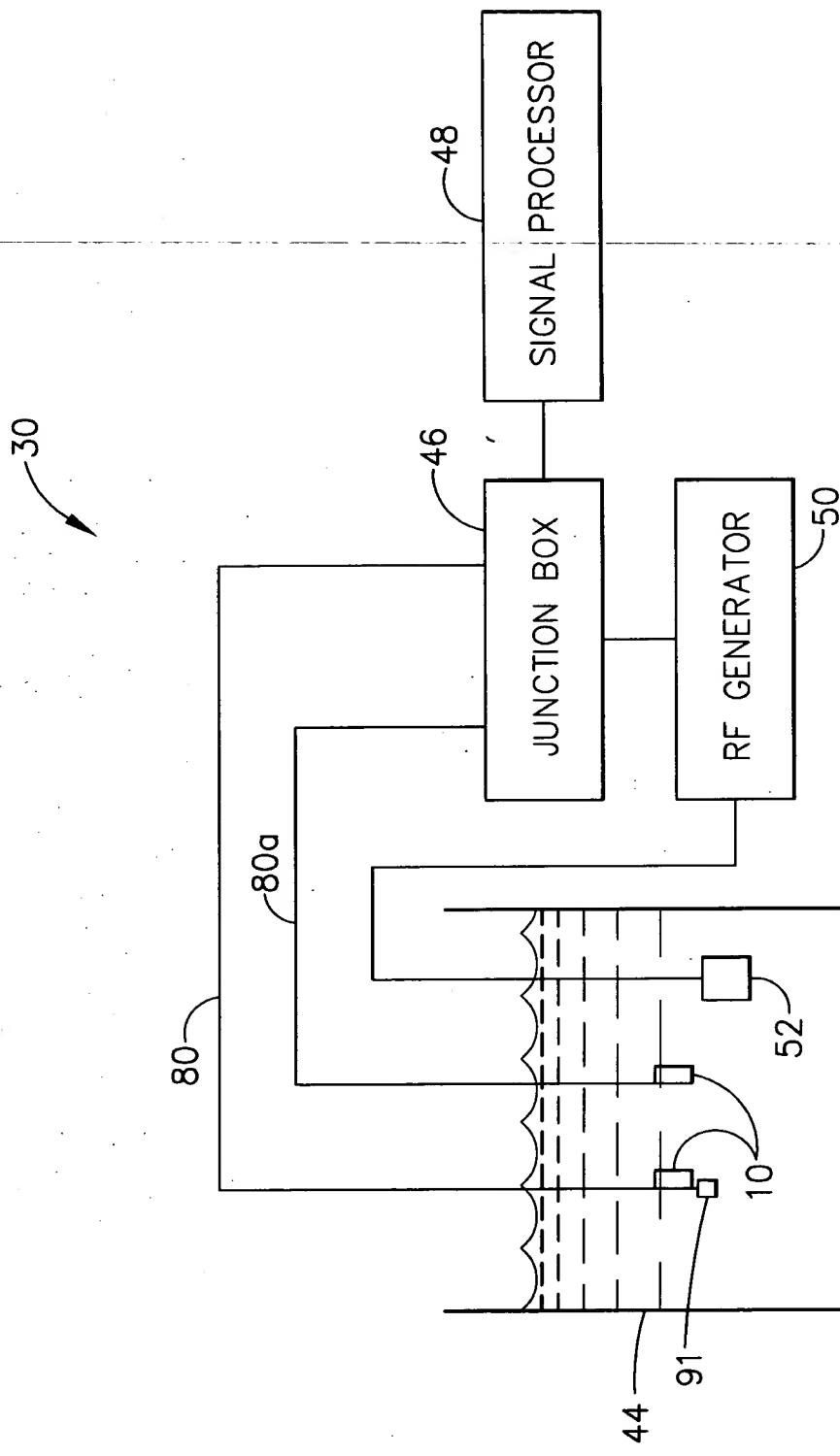


FIG. 3B

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FIG. 4

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DECEMBER 20 1964

WEIGAND MODULE-PULSE OUTPUT

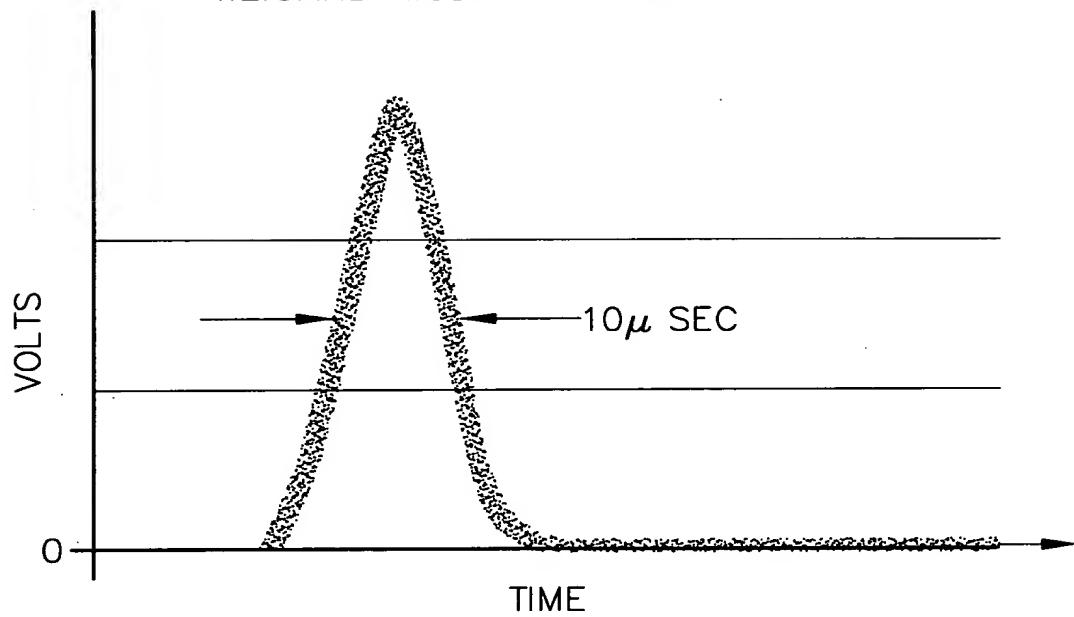


FIG. 5

APPENDIX

TABLE I

REGRESSING HEAT EXPERIMENT

8																
1		2		3		4		5		6		7		8		
sensitivity		resistance		sensitivity		resistance		sensitivity		resistance		sensitivity		resistance		
30	2.8290	1.39	176.30	12.58	2.3925	1.30	185.20	12.89	2.4537	1.31	171.60	13.17	2.8864	1.26	185.60	13.25
35	2.6327	1.25	178.90	10.98	2.3958	1.16	168.00	11.01	2.4587	1.18	174.30	11.42	2.8898	1.14	168.90	11.28
40	2.6356	1.13	181.80	9.19	2.3980	1.03	171.00	9.06	2.4598	1.06	177.20	9.59	2.8728	1.03	182.10	9.42
45	2.6390	1.00	184.40	7.85	2.4025	0.88	173.90	7.25	2.4632	0.92	178.90	7.95	2.8765	0.90	194.90	7.85
50	2.6419	0.89	187.40	5.82	2.4057	0.74	176.40	5.73	2.4670	0.76	182.60	6.35	2.8801	0.77	197.80	6.27
55	2.6457	0.75	190.40	4.25	2.4087	0.62	178.80	4.25	2.4705	0.62	185.30	4.80	2.8838	0.64	200.80	4.68
60	2.6486	0.63	192.80	2.98	2.4116	0.50	181.80	2.59	2.4744	0.46	188.20	3.19	2.8875	0.52	203.80	3.14
65	2.6518	0.51	195.80	1.38	2.4148	0.36	184.30	1.19	2.4774	0.34	191.80	1.25	2.8913	0.38	207.30	1.40
70	2.6557	0.37	198.50	0.00	2.4176	0.25	186.50	0.00	2.4799	0.24	184.20	0.00	2.8952	0.25	210.20	0.00
75	2.6599	0.21			2.4207	0.12			2.4833	0.10	198.40		2.8986	0.13	212.20	
80	2.6635	0.00			2.4238	0.00			2.4858	0.00			2.9024	0.00		
slope	-0.02686		-0.31865		-0.02659		-0.3233		-0.02699		-0.3305		-0.0254		-0.3279	
															-0.02055	
															-0.3124	
															-0.0253	
															-0.2834	
															-0.02686	
															-0.5271	
															-0.0219	
															-0.2834	
															-0.02686	